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ITCD

The ITCD logo graphic consists of three horizontal lines (two blue, one green) that end in small circles, resembling a circuit board or data lines.

Home Computer Security

Sponsored by NASA HQ ITCD

Special Projects Training

Presented by
your Computer Training Center





10 Mistakes Hackers Love

- Weak Passwords
- No Admin User Accounts
- Lame Protection Software
- Skimpy System Scans
- Lack of E-mail Security
- No Software Updates
- Rabid Browsing
- Downloads Gone Wild
- Default Firewalls
- Cheesy Wi-Fi Security



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#10

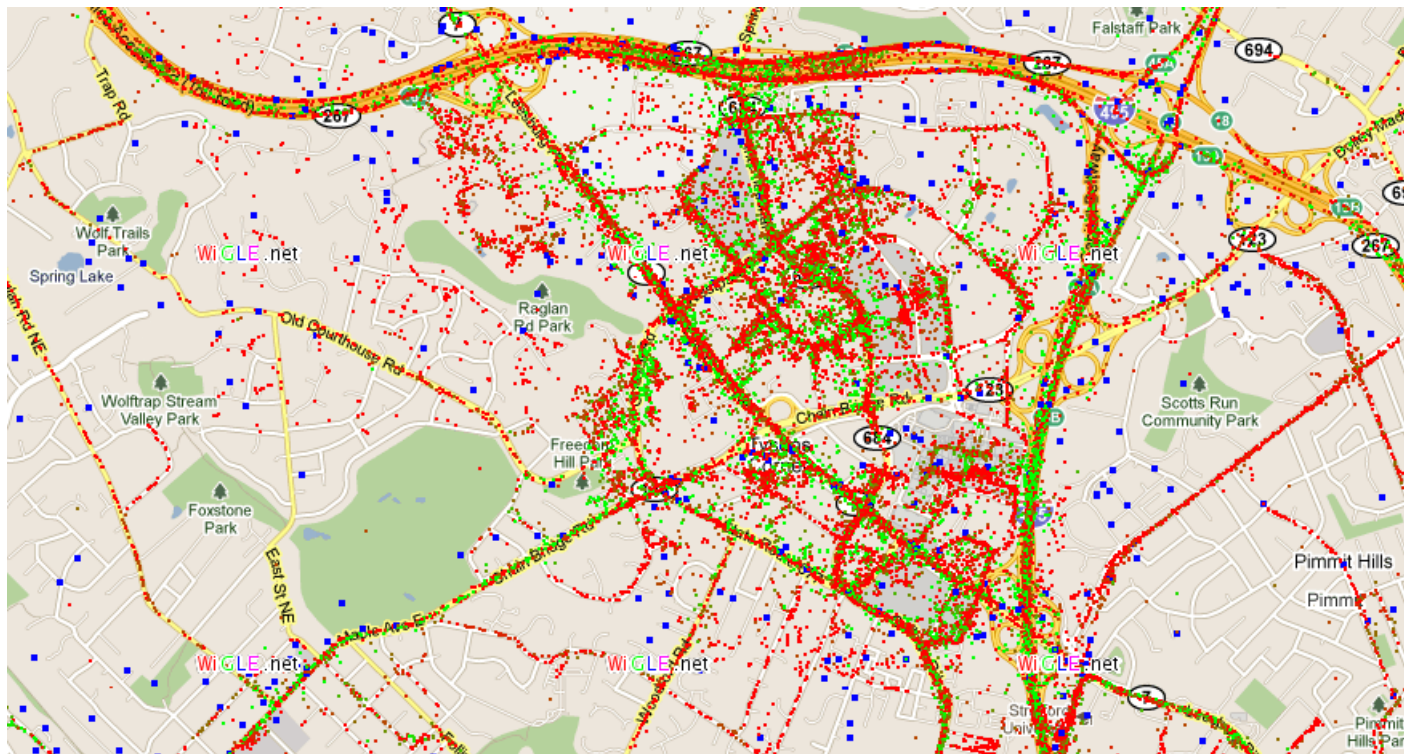
CHEESY WIFI SECURITY

WiFi Security



- 40% to 56% WiFi's have no security
 - Change administrator password
 - Disallow remote management
 - Set a complex Network Security Key
 - Do not broadcast your SSID
 - WEP – easy to crack with freeware
 - WPA, WPA2 – and variants are better

Is This You?



Have You Been Logged?

WiGLE - Wireless Geographic Logging Engine - Browsable Web Map - Windows Internet Explorer

http://www.wigle.net/gps/Map/onlineMap2/?addresscode=8001+Green+Tree+Court&citycode=Elkridge&statecode=MD&zipcode=&variance=0.010&ssid=&startTransID=20010000-00000&endTran...

Home | Download | Forums | Post File | Query | Screenshots | Stats | Uploads | Web Maps | MapPacks/Trees | Wiki | Login

Browsable Map of the World

Traffic ? Map Satellite Hybrid Terrain

Map showing various WiGLE.net locations and network data. The map displays a street grid with labels for Mayfield Ave, Green Tree Ct, and Summer Cr. Numerous WiGLE.net logos are scattered across the map, indicating wireless network locations. A search bar at the bottom left allows users to search the map.

Link to this map

Address Matches: 1
[1] coord: 38.804824825, -77.23696518
[1] name:
[1] state: MD
[1] zip:

Using first match, with +/- 0.010:
Latitude: 38.794824825 to 38.814824825
Longitude: -77.24696518 to -77.22696518
Latitude: [39.1935 to 39.1974]
Longitude: [-76.7961 to -76.7896]

U.S. Geocoding:
Street Address: [8001 Green Tree Court]
City: [Elkridge]
State: MD Zip: []

Filter By:

SSID: []

Start Year: 2001
End Year: 2012

☐ Possible FreeNet
☐ Possible Commercial Net
☐ First Discovered By Me
☐ Wifi Net
☐ GSM Cellular Net
☐ CDMA Cellular Net

Update

- Notes: Double-click or drag on map to re-center.
- If you zoom in far enough ssid will be displayed.
- If the map doesn't show up, try the [previous](#) or [original webmaps](#) instead.
- wide view: purple less dense, yellow more dense
- close view: red w/ low QoS, green w/ high QoS, blue cell tower
- QoS: Quality of Signal, higher seen multiple times by multiple observers

Download our [Android App](#)

Like 76 people like this. Be the first of your friends.

Map data ©2011 Google, (c) ©2010 WiGLE.net - Terms of Use

12:36 PM

WIGLE.NET

as of August 8, 2013

- Wireless Geographic Logging Engine
- 103,597,112 - Unique WiFi networks
- 1,950,190,421 – Unique WiFi's in DB
- 5.2% networks with Default SSID (5+M)
- 17% networks without crypto (17M+)
- Single day – 33,698 networks identified with location!
- Check your home at www.Wigle.net



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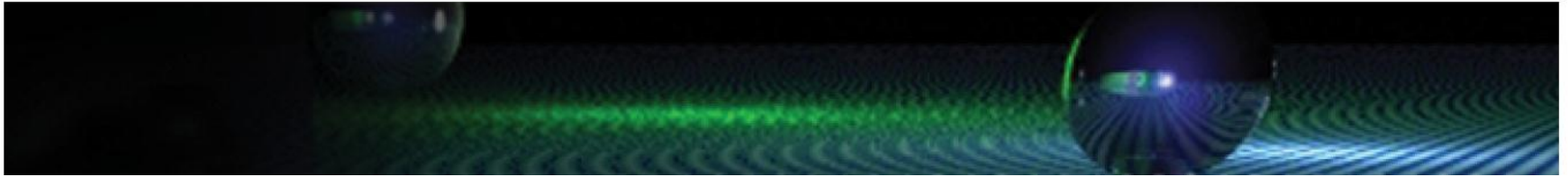
#9

DEFAULT FIREWALLS

Firewalls



- Firewalls - Hardware or software that checks info from the internet or a network, and then either blocks it or allows it to pass through to your computer. Does not prevent e-mail viruses or phishing scams.
- Router based - Protection from computers on the internet, not from computers on your home network. (i.e. mobile computer infected and you plug it into your network.)



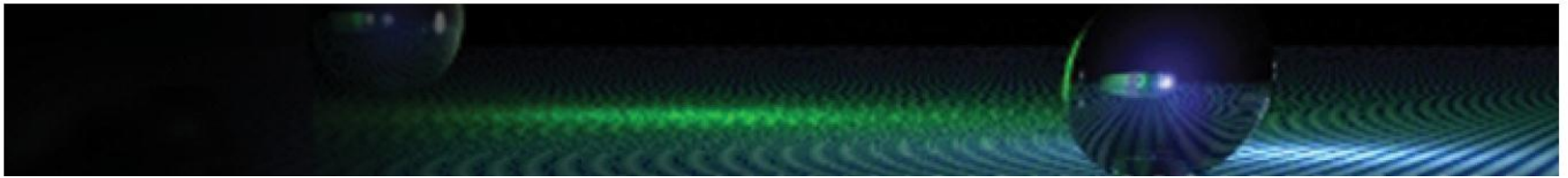
#8

Downloads Gone Wild!

Downloads



- Know and trust the source
- Trust your instincts
- Save to desktop and scan before opening
- If someone handed out free front door locks, would you accept one?
- Must act now or deal goes away! Really?
- Free Scans aka Free Scams



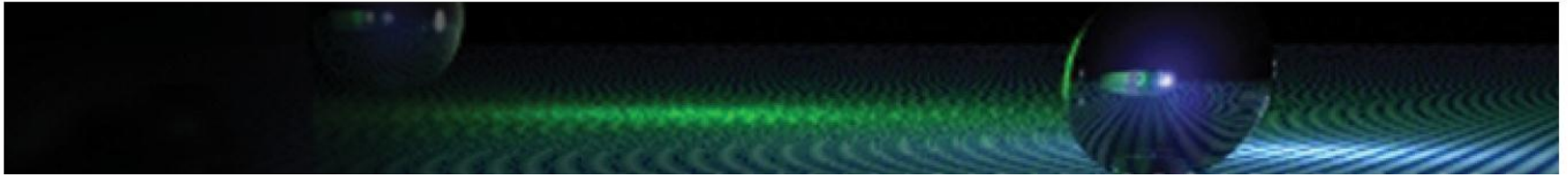
#7

Rabid Browsing!



Safe Browsing

- Do not use “remember passwords”
- Do not click on pop ups
- Do not open error dialogs
- Do not use auto fill
- Set your Internet security levels
- Make sure you are on a HTTPS site prior to putting in your personal info
- Use a toolbar that rates sites



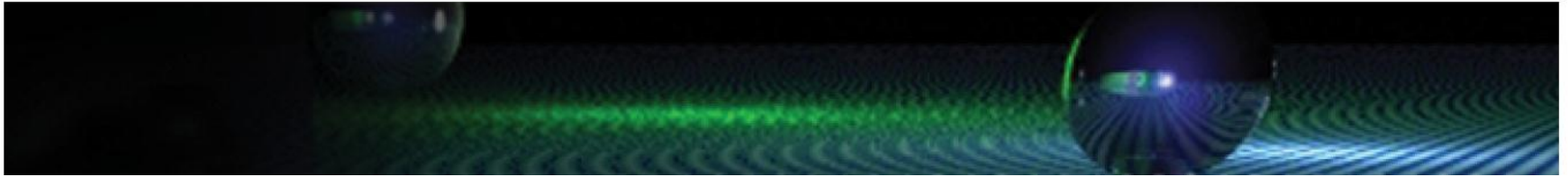
#6

No Software Updates!

Software Updates



- Operating System
- Microsoft Office/Office Suites
- Internet Browsers
- Anti-Virus/AV Suites
- Printer Drivers
- Peripheral/External Drives Drivers
- Games
- Specialty Software



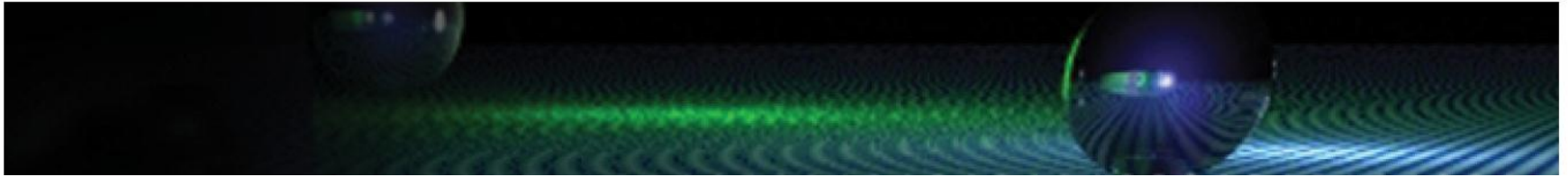
#5

Lack of E-Mail Security!

E-Mail Security



- Scan e-mails and attachments
- Delete unsolicited cards and e-mails
- Set Junk and Spam filters
- Never send PII through e-mail
- Do not forward chain e-mails
- Do not click on links
- Would your bank REALLY ask for your user ID and/or password?



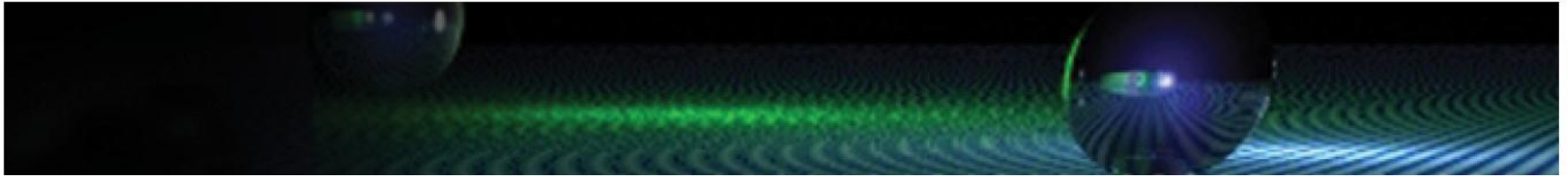
#4

Skimpy System Scans!

System Scans



- Keep protection software up to date
- Scan all files and folders
- Scan your system routinely
- Scan external drives automatically
- Scan incoming and outgoing e-mails
- Scan during times of little usage
- Scan downloads before opening
- Scan as Administrator

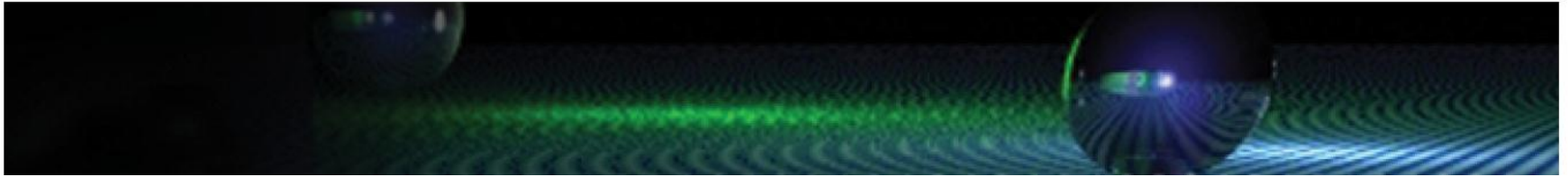


#3

Lame Protection Software!

Protection Software

- Anti-Virus
 - Detect, prevent and quarantine items
 - Stops someone from adding your computer to a Botnet or Zombie Army
- Anti-Spyware
 - Stops spyware from being installed
- Software Suites
 - All encompassing, often cost saving



#2

Admin User Accounts!

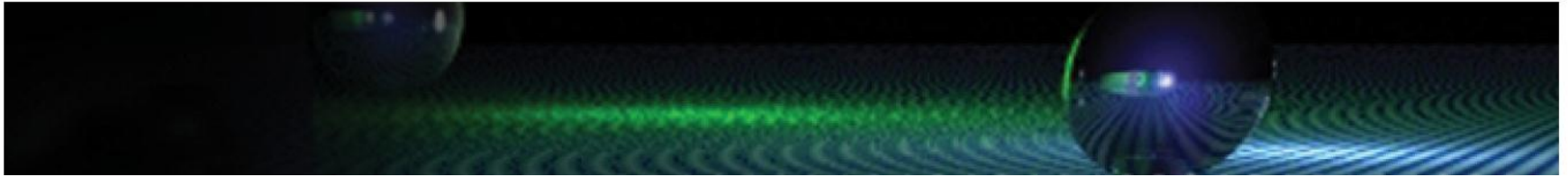
User Accounts

Administrator

- YES • Add/Remove Programs
- YES • Add/Remove User Accounts
- YES • Execute All Software
- YES • Update Software
- YES • Change Security Settings
- YES • Edit Registry
- YES • Install Printers/Devices
- YES • Unlock Guest Accounts
- YES • **ANYTHING**

Standard User

NO
NO
NO
NO
NO
NO
NO
NO



#1

Weak Passwords!

Passwords

Acceptable

- ^))@^^LF^^Hr-n1t-t~2006
- L@Cr@wF1sh1\$YuM^^y
- K0(1\$(\$d6L@-Y
- 1qaz!QAZ2wsx@WSX
- P@t<3sT1-ty3
- KA0@M1rR0rL@K3

Unacceptable

- Pa\$\$w0rd1
- _ or *
- 5052386260
- Prouard1234
- Fovyopmstu (one off of 'dictionary')
- MyDogCaesar
- MyCatBrutus
- Iwerkwithengines
- xylophone

Make a Strong Password

- Think of a sentence with meaning to you.

“My little furry meth house rescue dog’s name is Ti-Tye.”

- Take the first letter of each word.

MIlfmhrdnit-t

- Add complexity

- A-M Upper Case

- Change some letters to symbols (i.e. a=@, l=1, D=-, O=0, 0=O, M=^^)

^^LF^^Hr-n1t-t

- Add length with punctuation and symbols before and after.

^))@^^LF^^Hr-n1t-t~2006

Questions?



For assistance, contact the Enterprise Service Desk (ESD): submit a ticket online at esd.nasa.gov; or call 358-HELP (4357) or 1-866-4NASAHQ (462-7247).

For additional support on Home Computer Security, as well as training or support on any MSOffice application, contact the Computer Training Center located at extension .1111 or visit the CTC website at <http://www.hq.nasa.gov/office/itcd/ctc/index.html>.